
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2009; month=7; day=31; hr=7; min=52; sec=39; ms=490;]

Reviewer Comments:

1.

E355 Empty lines found between the amino acid numbering and the proteins SEQID (16)

E321 No. of Bases conflict, this line has no nucleotides SEQID (16) POS (496)

<210> 16

<211> 497

<212> PRT

<213> Pan troglodytes

* * * * * * * * *

Gln

3

The Sequence Listing file must end at the bottom of the last SEQ ID #. There can be no extra information following the last SEQ ID # in the file. Please remove extra information, "3", found at the end of the file, after SEQ ID # 16.

2.

W213

Artificial or Unknown found in <213> in SEQ ID (15)

| The | warnings | shown | above | are | ok | and | require | no | response. |
|-----|----------|-------|-------|-----|-----|------|---------|-----|-----------|
| *** | ****** | ***** | ***** | *** | *** | **** | ****** | *** | ***** |

Validated By CRFValidator v 1.0.3

Application No: 10552287 Version No: 3.0

Input Set:

Output Set:

Started: 2009-07-14 11:31:54.634 **Finished:** 2009-07-14 11:31:56.068

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 434 ms

Total Warnings: 1
Total Errors: 2

No. of SeqIDs Defined: 16

Actual SeqID Count: 16

| Err | or code | Error Description | | | | | | | | | |
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| W | 213 | Artificial or Unknown found in <213> in SEQ ID (15) | | | | | | | | | |
| E | 355 | Empty lines found between the amino acid numbering and the | | | | | | | | | |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEOID (16) | | | | | | | | | |

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<110> Futerman, Anthony
     Sussman, Joel
     Silman, Israel
     Harel, Michal
     Dvir, Hay
     Toker, Lilly
     Swetlana Adamsky
<120> GAUCHER DISEASE DRUGS AND METHODS OF IDENTIFYING SAME
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     35
             40
Met Glu Leu Ser Met Gly Pro Ile Gln Ala Asn His Thr Gly Thr Gly
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                  55
                                    60
Leu Leu Thr Leu Gln Pro Glu Gln Lys Phe Gln Lys Val Lys Gly
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Phe Gly Gly Ala Met Thr Asp Ala Ala Ala Leu Asn Ile Leu Ala Leu
            85
                         90
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Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe

Ser Pro Pro Ala Gln Asn Leu Leu Leu Lys Ser Tyr Phe Ser Glu Glu 100 105 110 115 120 125

Ser Ile Arg Thr Tyr Thr Tyr Ala Asp Thr Pro Asp Asp Phe Gln Leu 130 135 140 His Asn Phe Ser Leu Pro Glu Glu Asp Thr Lys Leu Lys Ile Pro Leu 145 150 155 Ile His Arg Ala Leu Gln Leu Ala Gln Arg Pro Val Ser Leu Leu Ala 165 170 175 Ser Pro Trp Thr Ser Pro Thr Trp Leu Lys Thr Asn Gly Ala Val Asn 180 185 Gly Lys Gly Ser Leu Lys Gly Gln Pro Gly Asp Ile Tyr His Gln Thr 195 200 205 Trp Ala Arg Tyr Phe Val Lys Phe Leu Asp Ala Tyr Ala Glu His Lys 215 220 Leu Gln Phe Trp Ala Val Thr Ala Glu Asn Glu Pro Ser Ala Gly Leu 225 230 235 Leu Ser Gly Tyr Pro Phe Gln Cys Leu Gly Phe Thr Pro Glu His Gln 245 250 Arg Asp Phe Ile Ala Arg Asp Leu Gly Pro Thr Leu Ala Asn Ser Thr 265 260 270 His His Asn Val Arg Leu Leu Met Leu Asp Asp Gln Arg Leu Leu Leu 275 280 285 Pro His Trp Ala Lys Val Val Leu Thr Asp Pro Glu Ala Ala Lys Tyr 295 290 Val His Gly Ile Ala Val His Trp Tyr Leu Asp Phe Leu Ala Pro Ala 305 310 315 320 Lys Ala Thr Leu Gly Glu Thr His Arg Leu Phe Pro Asn Thr Met Leu 330 325

Phe Ala Ser Glu Ala Cys Val Gly Ser Lys Phe Trp Glu Gln Ser Val

345

350

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|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Ala | Leu | Gly 35 | Thr | Phe | Ser | Arg | Tyr 40 | Glu | Ser | Thr | Arg | Ser 45 | Gly | Arg | Arg |
| Met | Glu 50 | Leu | Ser | Met | Gly | Pro 55 | Ile | Gln | Ala | Asn | His 60 | Thr | Gly | Thr | Gly |
| Leu 65 | Leu | Leu | Thr | Leu | Gln 70 | Pro | Glu | Gln | Lys | Phe 75 | Gln | Lys | Val | Lys | Gly 80 |
| Phe | Gly | Gly | Ala | Met 85 | Thr | Asp | Ala | Ala | Ala 90 | Leu | Asn | Ile | Leu | Ala 95 | Leu |
| Ser | Pro | Pro | Ala 100 | Gln | Asn | Leu | Leu | Leu 105 | Lys | Ser | Tyr | Phe | Ser 110 | Glu | Glu |
| Gly | Ile | Gly 115 | Tyr | Asn | Ile | Ile | Arg 120 | Val | Pro | Met | Ala | Ser 125 | Суз | Asp | Phe |
| Ser | Ile 130 | Arg | Thr | Tyr | Thr | Tyr 135 | Ala | Asp | Thr | Pro | Asp 140 | Asp | Phe | Gln | Leu |
| His 145 | Asn | Phe | Ser | Leu | Pro 150 | Glu | Glu | Asp | Thr | Lys 155 | Leu | Lys | Ile | Pro | Leu 160 |
| Ile | His | Arg | Ala | Leu 165 | Gln | Leu | Ala | Gln | Arg 170 | Pro | Val | Ser | Leu | Leu 175 | Ala |
| Ser | Pro | Trp | Thr 180 | Ser | Pro | Thr | Trp | Leu 185 | Lys | Thr | Asn | Gly | Ala 190 | Val | Asn |
| Gly | Lys | Gly 195 | Ser | Leu | Lys | Gly | Gln 200 | Pro | Gly | Asp | Ile | Tyr 205 | His | Gln | Thr |
| Trp | Ala 210 | Arg | Tyr | Phe | Val | Lys 215 | Phe | Leu | Asp | Ala | Tyr 220 | Ala | Glu | His | Lys |
| Leu 225 | Gln | Phe | Trp | Ala | Val 230 | Thr | Ala | Glu | Asn | Glu 235 | Pro | Ser | Ala | Gly | Leu 240 |

| Leu | Ser | Gly | Tyr | Pro 245 | Phe | Gln | Суз | Leu | Gly 250 | Phe | Thr | Pro | Glu | His 255 | Gln |
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| Pro | His 290 | Trp | Ala | Lys | Val | Val 295 | Leu | Thr | Asp | Pro | Glu 300 | Ala | Ala | Lys | Tyr |
| Val 305 | His | Gly | Ile | Ala | Val 310 | His | Trp | Tyr | Leu | Asp 315 | Phe | Leu | Ala | Pro | Ala 320 |
| Lys | Ala | Thr | Leu | Gly 325 | Glu | Thr | His | Arg | Leu 330 | Phe | Pro | Asn | Thr | Met 335 | Leu |
| Phe | Ala | Ser | Glu 340 | Ala | Суѕ | Val | Gly | Ser 345 | Lys | Phe | Trp | Glu | Gln 350 | Ser | Val |
| Arg | Leu | Gly 355 | Ser | Trp | Asp | Arg | Gly 360 | Met | Gln | Tyr | Ser | His 365 | Ser | Ile | Ile |
| | Ser 370 | Leu | Leu | Tyr | His | Val 375 | Val | Gly | Trp | Thr | Asp 380 | Trp | Asn | Leu | Ala |
| Leu 385 | Asn | Pro | Glu | Gly | Gly 390 | Pro | Asn | Trp | Val | Arg 395 | Asn | Phe | Val | Asp | Ser 400 |
| Pro | Ile | Ile | Val | Asp 405 | Ile | Thr | Lys | Asp | Thr 410 | Phe | Tyr | Lys | Gln | Pro 415 | Met |
| Phe | Tyr | His | Leu 420 | Gly | His | Phe | Ser | Lys 425 | Phe | Ile | Pro | Glu | Gly 430 | Ser | Gln |
| Arg | Val | Gly 435 | Leu | Val | Ala | Ser | Gln 440 | Lys | Asn | Asp | Leu | Asp 445 | Ala | Val | Ala |
| Leu | Met 450 | Asn | Pro | Asp | Gly | Ser 455 | Ala | Val | Val | Val | Val 460 | Leu | Asn | Arg | Ser |

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Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe

125

| Ser | Ile 130 | Arg | Thr | Tyr | Thr | Tyr 135 | Ala | Asp | Thr | Pro | Asp 140 | Asp | Phe | Gln | Leu |
|------------|------------|------------|-----|------------|------------|------------|------------|-----|------------|------------|------------|------------|-----|------------|------------|
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| Ile | His | Arg | Ala | Leu 165 | Gln | Leu | Ala | Gln | Arg 170 | Pro | Val | Ser | Leu | Leu 175 | Ala |
| | | | 180 | | | | | 185 | | | | | 190 | Val | |
| | | 195 | | | _ | | 200 | | | | | 205 | | Gln | |
| | 210 | | | | | 215 | | | | | 220 | | | His | |
| 225 | | | | | 230 | | | | | 235 | | | | His | 240 |
| | | | | 245 | | | | | 250 | | | | | 255 Ser | |
| | | | 260 | | | | | 265 | | | | | 270 | Leu | |
| Pro | His | 275 Trp | Ala | Lys | Val | Val | 280 Leu | Thr | Asp | Pro | Glu | 285 Ala | Ala | Lys | Tyr |
| Val | 290 His | Gly | Ile | Ala | Val | 295 His | Trp | Tyr | Leu | Asp | 300 Phe | Leu | Ala | Pro | Ala |
| 305 Lys | Ala | Thr | Leu | Gly | 310 Glu | Thr | His | Arg | Leu | 315 Phe | Pro | Asn | Thr | Met | 320 Leu |
| Phe | Ala | Ser | Glu | 325 Ala | Cys | Val | Gly | Ser | 330 Lys | Phe | Trp | Glu | Gln | 335 Ser | Val |
| | | | 340 | | | | | 345 | | | | | 350 | | |

Arg Leu Gly Ser Trp Asp Arg Gly Met Gln Tyr Ser His Ser Ile Ile

355 360 365

Thr Asn Leu Leu Tyr His Val Val Gly Trp Thr Asp Trp Asn Leu Ala 370 375 380

Leu Asn Pro Glu Gly Gly Pro Asn Trp Leu Arg Asn Phe Val Asp Ser 385 390 395 400

Pro Ile Ile Val Asp Ile Thr Lys Asp Thr Phe Tyr Lys Gln Pro Met \$405\$ \$410\$ \$415\$

Phe Tyr His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln 420 425 430

Arg Val Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Ala 435 440 445

Leu Met Asn Pro Asp Gly Ser Ala Val Val Val Leu Asn Arg Ser 450 455 460

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Met Glu Leu Ser Met Gly Pro Ile Gln Ala Asn His Thr Gly Thr Gly 50 60

Leu Leu Thr Leu Gln Pro Glu Gln Lys Phe Gln Lys Val Lys Gly 65 70 75 80

Phe Gly Gly Ala Met Thr Asp Ala Ala Ala Leu Asn Ile Leu Ala Leu 85 90 95

Ser Pro Pro Ala Gln Asn Leu Leu Leu Lys Ser Tyr Phe Ser Glu Glu 100 105 110

Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe 115 120 125

Ser Ile Arg Thr Tyr Thr Tyr Ala Asp Thr Pro Asp Asp Phe Gln Leu 130 135 140

Ile His Arg Ala Leu Gln Leu Ala Gln Arg Pro Val Ser Leu Leu Ala 165 170 175

Ser Pro Trp Thr Ser Pro Thr Trp Leu Lys Thr Asn Gly Ala Val Asn 180 185 190

Gly Lys Gly Ser Leu Lys Gly Gln Pro Gly Asp Ile Tyr His Gln Thr 195 200 205

Trp Ala Arg Tyr Phe Val Lys Phe Leu Asp Ala Tyr Ala Glu His Lys 210 215 220

Leu Gln Phe Trp Ala Val Thr Ala Glu Asn Glu Pro Ser Ala Gly Leu 225 230 230 240

Leu Ser Gly Tyr Pro Phe Gln Cys Leu Gly Phe Thr Pro Glu His Gln 245 250 255

| Arg Asp Phe | e Ile Ala 260 | Arg Asp | Leu Gl | - | Thr Let | ı Ala | Asn 270 | Ser | Thr |
|--------------------|------------------|----------------|---------------|---------------|----------------|--------------|------------|------------|------------|
| His His Ası 279 | _ | Leu Leu | Met Le | eu Asp | Asp Glr | n Arg 285 | Leu | Leu | Leu |
| Pro His Tr | o Ala Lys | Val Val 295 | | nr Asp | Pro Glu | | Ala | Lys | Tyr |
| Val His Gly | y Ile Ala | Val His | Trp Ty | yr Leu | Asp Phe | e Leu | Ala | Pro | Ala 320 |
| Lys Ala Th: | Leu Gly 325 | | His Ar | rg Leu 330 | Phe Pro |) Asn | | Met 335 | Leu |
| Phe Ala Se | Glu Ala 340 | Cys Val | Gly Se | _ | Phe Trp | o Glu | Gln 350 | Ser | Val |
| Arg Leu Gly | | Asp Arg | Gly Me | et Gln | Tyr Sei | 365 | Ser | Ile | Ile |
| Thr Asn Let | ı Leu Tyr | His Val | | ly Trp | Thr Asy | _ | Asn | Leu | Ala |
| Leu Asn Pro | o Glu Gly | Gly Pro 390 | Asn Tr | rp Val | Arg Ası 395 | n Phe | Val . | Asp | Ser 400 |
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| Phe Tyr Hi: | E Leu Gly | His Phe | Ser Ly 42 | _ | Ile Pro | Glu | Gly 430 | Ser | Gln |
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| Leu Met Ası 450 | n Pro Asp | Gly Ser 455 | | al Val | Val Val | | Asn . | Arg | Ser |
| Ser Lys Asp 465 | Val Pro | Leu Thr 470 | Ile Ly | ys Asp | Pro Ala | a Val | Gly | Phe | Leu 480 |

Glu Thr Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg \$485\$